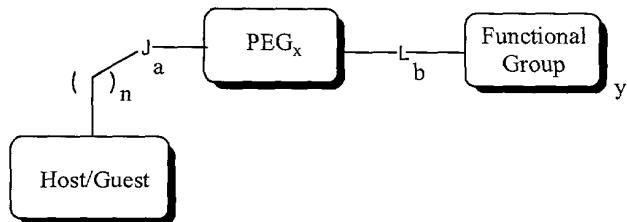


The claimed invention is:

1. A compound of the formula:

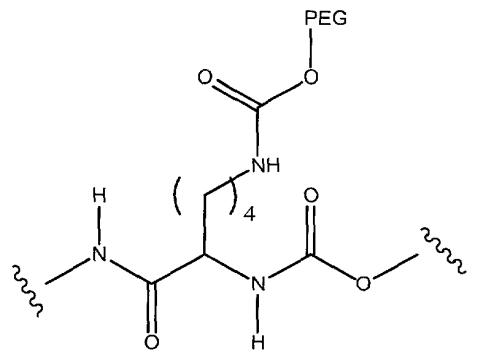


5

wherein

J is -NH-, -C(=O)NH-(CH₂)_d-, -NH-C(=O)-(CH₂)_d-, -CH₂SS-, -C(=O)O-(CH₂)_e-O-P(=O)(O-(CH₂)_e-Y)O-,

10



a peptide or polypeptide residue, or

-NH-(C=O)-CH(R¹)-NH-(C=O)-CH(R¹)-NH-;

Y is an additional host/guest functionality;

15 R¹ is -(CH₂)_a-CO₂H, an ester or salt thereof; or -(CH₂)_a-CONH₂;

PEG is -O(CH₂CH₂O)_z-, where z varies from 2 to 500;

L is H, -NH₂, -NH-(C=O)-(CH₂)_e-(C=O)-CH₂-, -S(=O)₂-HC=CH₂-, -SS-, -C(=O)O- or a carbohydrate residue;

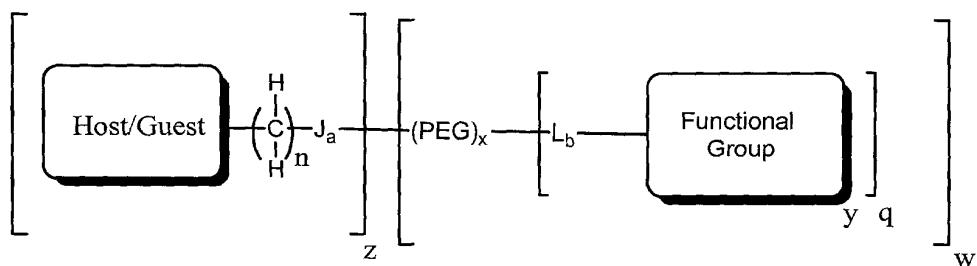
a is 0 or 1;

20 b is 0 or 1;

d ranges from 0 to 6;
e ranges from 1 to 6;
n ranges from 0 to 6;
y is 0 or 1; and
5 x is 0 or 1.

2. A compound of claim 1, wherien the host/guest is selected from the group of adamantyl, naphthyl, cholesterol, cyclodextrin, and mixtures thereof.

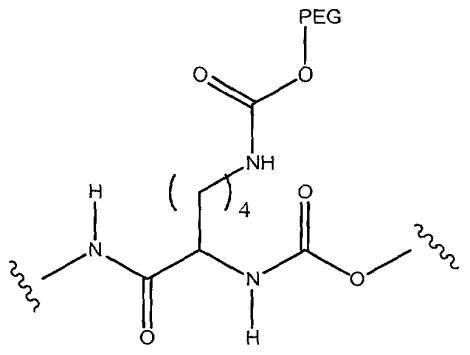
10 3. A compound of the formula:



wherein

J is $-\text{NH}-$, $-\text{C}(=\text{O})\text{NH}-(\text{CH}_2)_d-$, $-\text{NH}-\text{C}(=\text{O})-(\text{CH}_2)_d-$, $-\text{CH}_2\text{SS}-$, $-\text{C}(=\text{O})\text{O}-(\text{CH}_2)_e-\text{O}-\text{P}(=\text{O})(\text{O}-(\text{CH}_2)_e-\text{Y})\text{O}-$,

15



a peptide or polypeptide residue, or
 $-\text{NH}-(\text{C}=\text{O})-\text{CH}(\text{R}^1)-\text{NH}-(\text{C}=\text{O})-\text{CH}(\text{R}^1)-\text{NH}-$;
20 Y is an additional host/guest functionality;

R¹ is -(CH₂)_a-CO₂H, an ester or salt thereof; or -(CH₂)_a-CONH₂;
PEG is -O(CH₂CH₂O)_z-, where z varies from 2 to 500;
L is H, -NH₂, -NH-(C=O)-(CH₂)_e-(C=O)-CH₂-, -S(=O)₂-HC=CH₂-, -SS-, -C(=O)O- or a carbohydrate residue;

5 a is 0 or 1;
b is 0 or 1;
d ranges from 0 to 6;
e ranges from 1 to 6;
n ranges from 0 to 6;

10 q ranges from 1 to 5;
w ranges from 1 to 5;
y is 0 or 1;
x is 0 or 1; and
z ranges from 1 to 5.

15

4. A compound of claim 3, wherein the host/guest is selected from the group of adamantyl, naphthyl, cholesterol, cyclodextrin, and mixtures thereof.

5. A composition comprising a particulate composite of a cyclodextrin
20 containing polymer and a therapeutic agent and an inclusion complex of said cyclodextrin polymer and a complexing agent comprising an inclusion guest is a compound of claim 1.

25 6. A composition of claim 5, wherein said therapeutic agent is selected from the group consisting of an antibiotic, a steroid, a polynucleotide, small molecule pharmaceutical, a virus, a plasmid, a peptide, a peptide fragment, a chelating agent, a biologically active macromolecule, and mixtures thereof.

30 7. A composition of claim 6, wherein said therapeutic agent is a polynucleotide.

8. A composition comprising a particulate composite of a cyclodextrin containing polymer and a therapeutic agent and an inclusion complex of said cyclodextrin polymer and a complexing agent comprising an inclusion guest is a 5 compound of claim 3.
9. A composition of claim 8, wherein said therapeutic agent is selected from the group consisting of an antibiotic, a steroid, a polynucleotide, small molecule pharmaceutical, a virus, a plasmid, a peptide, a peptide fragment, a chelating 10 agent, a biologically active macromolecule, and mixtures thereof.
10. A composition of claim 9, wherein said therapeutic agent is a polynucleotide.

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